EFFECTIVE METHODS OF SOFTWARE TESTING

THREE DAYS

Who Should Attend

This 3 day workshop is a general software testing workshop covering a wide range of testing techniques across the system life cycle. Therefore, any professional involved with or related to systems planning, analysis, requirements, definition, design, construction, testing, or maintenance of software will find the content of value. Also, business analysts, quality assurance and audit personnel as well as key user/clients will also find this workshop of both interest and value.

Course Description

Effective Methods of Software Testing Workshop provides a comprehensive coverage of the testing processes available to support the development and delivery of quality software. The focus in on integrated testing processes and procedures which can be made a part of the software development and support process with reasonable costs. The course covers the principles, the processes and the documentation of software testing, verification and validation.

Almost half of the session is devoted to early testing procedures. Here, test processes supporting analysis, requirements definition, and logical design are covered. This material provides a cohesive method for avoiding the early errors which are extremely costly to correct if they are not discovered until after coding or code generation. The methodology is generic and can be modified to support large and/or small projects. The philosophy here is, "If you have code and then consider testing, you are late!"
The remainder of the session concentrates on more traditional testing topics. Test case design is covered in detail, along with function and process testing, module, unit, integration, system, and user acceptance testing, build/test strategies, test data bases, and thread testing. The measurement of testing effectiveness, and the strategies for software unit, integration, system, and regression test specification, design, and implementation are presented. Different methods are compared and the process stopping criteria are discussed along with the economics of various testing options. Special attention is directed at early verification techniques such as specification and design inspection, definition of the operational profile of the product, and at automated testing availability of support tools for testing. Finally, issues of test completeness, test measurement, and the tuning of testing strategies are covered.